GRID DEPLOYMENT OFFICE

FACT SHEET

GRID RESILIENCE AND INNOVATION PARTNERSHIPS PROGRAM

Established by the Bipartisan Infrastructure Law, the U.S. Department of Energy's Grid Deployment Office is administering a historic $10.5 billion investment via the Grid Resilience and Innovation Partnerships (GRIP) program to enhance grid flexibility, improve the resilience of the power system against growing threats of extreme weather and climate change, and ensure American communities have access to affordable, reliable, clean electricity when and where they need it.

SUPPORTING DISTRIBUTION DURING GRID STRESS

The Community Grid Innovation Program (CGIP) project facilitates the aggregation and integration of electric vehicles (EVs) and EV chargers, energy storage, solar photovoltaic systems (PV), and demand response infrastructure in one robust platform to support the Los Angeles Department of Water and Power's (LADWP) distribution system during times of grid stress, like extreme weather. The CGIP will provide distributed energy resources (DERs) that can be controlled in response to grid needs. The project increases grid reliability and flexibility by providing additional control options for the operator, LADWP's Energy Control Center (ECC), to quickly rebalance the electrical system after an event.

Anticipated Outcomes and Benefits

TCGIP will have a positive impact to reduce innovative technology risk by accelerating the maturation of the market for third-party DER aggregation. Furthermore, LADWP's technology-agnostic approach demands a common communication platform that will allow interoperability among disparate resources, opening the door to future technologies not yet conceived. These benefits include:

- Deploy and enroll 7,500 smart thermostats to allow for DER participation which will add another 5 MW of DER capacity.
- Provide grid operators with visibility of DERs on the electrical system and the ability to dispatch these units to maintain grid reliability through a Distributed Energy Resource Management System (DERMS). Grid operators may control smart inverters' voltage and active power output for frequency support.
- Reduce outages resulting from extreme events, improve restoration times, and reduce health and safety risks within affected communities.
- Partner with the International Brotherhood of Electrical Workers (IBEW) to ensure that either LADWP staff or contractors will be available to perform all the scope proposed here.
- Reach out to small engineering and energy-related firms in **disadvantaged communities** (DACs) to raise awareness and provide services in support of the new program.
- Set annual target participation goals of 25% and 3% for small business enterprises and disabled veteran business enterprises, respectively.
- Working with community organizers to provide social service interventions to help individuals address barriers to employment that are not related to the job itself, such as transportation, childcare, and housing.
- Close partnership with local labor unions to ensure that jobs associated with the project are locally sourced and high quality jobs that are well-paid, sustained over the years, with good benefits, and training opportunities to enter the unionized workforce.

PROJECT DETAILS

- **Project:** Expanding Distribution System Visibility and the Ability to Dispatch Distributed Energy Resources
- **Applicant/Selectee:** Los Angeles Department of Water and Power
- **GRIP Program:** Smart Grid Grants (Bipartisan Infrastructure Law, Section 40107)
- **Federal cost share:** $48,000,000
- **Recipient cost share:** $48,000,000
- **Project Location:** California
- **Project type:** Visibility and Control

HELPFUL LINKS

- Grid Resilience and Innovation Partnerships Program
- About the Grid Deployment Office

Published October 2023. Fact sheet information is based on project applications at the time of publication and should not be considered final.